SEQUENCE LISTING

(1) GENERAL INFORMATION:

   (i) APPLICANT: CLAYBERGER, CAROL
             KRENSKI, ALAN
             BUELOW, ROLAND

  (ii) TITLE OF INVENTION: IMMUNOMODULATING DIMERS

 (iii) NUMBER OF SEQUENCES: 37

  (iv) CORRESPONDENCE ADDRESS:
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     (C) CITY: WASHINGTON
     (D) STATE: DC
     (E) COUNTRY: USA
     (F) ZIP: 20006-1888

   (v) COMPUTER READABLE FORM:
     (A) MEDIUM TYPE: Floppy disk
     (B) COMPUTER: IBM PC compatible
     (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

  (vi) CURRENT APPLICATION DATA:
     (A) APPLICATION NUMBER: US 08/653,294
     (B) FILING DATE: 24-MAY-1996
     (C) CLASSIFICATION:

 (viii) ATTORNEY/AGENT INFORMATION:
     (A) NAME: MILLMAN, ROBERT A.
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     (C) REFERENCE/DOCKET NUMBER: 28600-20200.23

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(2) INFORMATION FOR SEQ ID NO:1:

   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 10 amino acids
     (B) TYPE: amino acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear

  (ix) FEATURE:
     (A) NAME/KEY: Modified-site
     (B) LOCATION: 2
     (D) OTHER INFORMATION: /label= aa76
  /note= "Glutamic acid (E) or valine (V)"

    (ix) FEATURE:
         (A) NAME/KEY: Modified-site
         (B) LOCATION: 3
         (D) OTHER INFORMATION: /label= aa77
/note= "Aspartic acid (D), serine (S) or asparagine (N)"

    (ix) FEATURE:
         (A) NAME/KEY: Modified-site
         (B) LOCATION: 5
         (D) OTHER INFORMATION: /label= aa79
/note= "Arginine (R) or glycine (G)"

    (ix) FEATURE:
         (A) NAME/KEY: Modified-site
         (B) LOCATION: 6
         (D) OTHER INFORMATION: /label= aa80
/note= "isoleucine (I) or asparagine (N)"

    (ix) FEATURE:
         (A) NAME/KEY: Modified-site
         (B) LOCATION: 7
         (D) OTHER INFORMATION: /label= aa81
/note= "a hydrophobic or small amino acid"

    (ix) FEATURE:
         (A) NAME/KEY: Modified-site
         (B) LOCATION: 8
         (D) OTHER INFORMATION: /label= aa82
/note= "arginine (R) or leucine (L)"

    (ix) FEATURE:
         (A) NAME/KEY: Modified-site
         (B) LOCATION: 9
         (D) OTHER INFORMATION: /label= aa83
/note= "glycine (G) or arginine (R)"

    (ix) FEATURE:
         (A) NAME/KEY: Modified-site
         (B) LOCATION: 10
         (D) OTHER INFORMATION: /label= aa84
/note= "a hydrophobic or small amino acid"

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

    Arg Xaa Xaa Leu Xaa Xaa Xaa Xaa Xaa Xaa
    1   5   10

(2) INFORMATION FOR SEQ ID NO:2:

    (i) SEQUENCE CHARACTERISTICS:
         (A) LENGTH: 10 amino acids
         (B) TYPE: amino acid
         (C) STRANDEDNESS: single

```
          (D) TOPOLOGY: linear

   (ix) FEATURE:
          (A) NAME/KEY: Modified-site
          (B) LOCATION: 9
          (D) OTHER INFORMATION: /label= aa76
/note= "Glutamic acid (E) or valine (V)"

   (ix) FEATURE:
          (A) NAME/KEY: Modified-site
          (B) LOCATION: 8
          (D) OTHER INFORMATION: /label= aa77
/note= "Aspartic acid (D), serine (S) or asparagine (N)"

   (ix) FEATURE:
          (A) NAME/KEY: Modified-site
          (B) LOCATION: 6
          (D) OTHER INFORMATION: /label= aa79
/note= "Arginine (R) or glycine (G)"

   (ix) FEATURE:
          (A) NAME/KEY: Modified-site
          (B) LOCATION: 5
          (D) OTHER INFORMATION: /label= aa80
/note= "isoleucine (I) or asparagine (N)"

   (ix) FEATURE:
          (A) NAME/KEY: Modified-site
          (B) LOCATION: 4
          (D) OTHER INFORMATION: /label= aa81
/note= "a hydrophobic or small amino acid"

   (ix) FEATURE:
          (A) NAME/KEY: Modified-site
          (B) LOCATION: 3
          (D) OTHER INFORMATION: /label= aa82
/note= "arginine (R) or leucine (L)"

   (ix) FEATURE:
          (A) NAME/KEY: Modified-site
          (B) LOCATION: 2
          (D) OTHER INFORMATION: /label= aa83
/note= "glycine (G) or arginine (R)"

   (ix) FEATURE:
          (A) NAME/KEY: Modified-site
          (B) LOCATION: 1
          (D) OTHER INFORMATION: /label= aa84
/note= "a hydrophobic or small amino acid"

   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

   Xaa Xaa Xaa Xaa Xaa Xaa Leu Xaa Xaa Arg
   1               5                   10
```

(2) INFORMATION FOR SEQ ID NO:3:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 10 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ix) FEATURE:
        (A) NAME/KEY: Modified-site
        (B) LOCATION: 3
        (D) OTHER INFORMATION: /label= X1
/note= "any amino acid, polar or non-polar, preferably polar,
either charged or uncharged"

    (ix) FEATURE:
        (A) NAME/KEY: Modified-site
        (B) LOCATION: 6
        (D) OTHER INFORMATION: /label= X2
/note= "preferably an amino acid of at least 5 carbon atoms,
which may be polar or non-polar, particularly asparagine and
isoleucine"

    (ix) FEATURE:
        (A) NAME/KEY: Modified-site
        (B) LOCATION: 7
        (D) OTHER INFORMATION: /label= X3
/note= "non-polar aliphatic amino acid from 2 to 6 carbon atoms,
ispecially isoleucine"

    (ix) FEATURE:
        (A) NAME/KEY: Modified-site
        (B) LOCATION: 8
        (D) OTHER INFORMATION: /label= X4
/note= "any amino acid, particularly aliphatic, either charged
or uncharged, preferably at least about 5 carbon atoms, such as
argninie and leucine"

    (ix) FEATURE:
        (A) NAME/KEY: Modified-site
        (B) LOCATION: 9
        (D) OTHER INFORMATION: /label= X5
/note= "any amino acid, preferably aliphatic, charged or
uncharged, polar or non-polar, particularly glycine and
arginine"

    (ix) FEATURE:
        (A) NAME/KEY: Modified-site
        (B) LOCATION: group(8, 9)
        (D) OTHER INFORMATION: /note= "X4 or X5 is arginine"

    (ix) FEATURE:
        (A) NAME/KEY: Modified-site

          (B) LOCATION: 10
          (D) OTHER INFORMATION: /label= X6
  /note= "any amino acid, preferably hydrophobic and small"

    (ix) FEATURE:
          (A) NAME/KEY: Modified-site
          (B) LOCATION: group(3, 6, 7, 8, 9, 10)
          (D) OTHER INFORMATION: /note= "Preferably, X1-X6 will be
  S,N,L,R,G,Y or N,I,L,R,Y or D,I,L,L,R,Y, respectively, where one
  amino acid in a group may be substituted at the same site for
  the amino acid in another group"

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

    Arg Glu Xaa Leu Arg Xaa Xaa Xaa Xaa Xaa
    1   5   10

(2) INFORMATION FOR SEQ ID NO:4:

    (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 6 amino acids
          (B) TYPE: amino acid
          (C) STRANDEDNESS: single
          (D) TOPOLOGY: linear

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

    Arg Ile Ala Leu Arg Tyr
    1   5

(2) INFORMATION FOR SEQ ID NO:5:

    (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 6 amino acids
          (B) TYPE: amino acid
          (C) STRANDEDNESS: single
          (D) TOPOLOGY: linear

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

    Arg Ile Leu Leu Arg Tyr
    1   5

(2) INFORMATION FOR SEQ ID NO:6:

    (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 6 amino acids
          (B) TYPE: amino acid
          (C) STRANDEDNESS: single
          (D) TOPOLOGY: linear

        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

        Tyr Arg Leu Leu Ile Arg
        1   5

(2) INFORMATION FOR SEQ ID NO:7:

        (i) SEQUENCE CHARACTERISTICS:
             (A) LENGTH: 6 amino acids
             (B) TYPE: amino acid
             (C) STRANDEDNESS: single
             (D) TOPOLOGY: linear

        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

        Tyr Arg Leu Ala Ile Arg
        1   5

(2) INFORMATION FOR SEQ ID NO:8:

        (i) SEQUENCE CHARACTERISTICS:
             (A) LENGTH: 10 amino acids
             (B) TYPE: amino acid
             (C) STRANDEDNESS: single
             (D) TOPOLOGY: linear

        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

        Arg Glu Asn Leu Arg Ile Ala Leu Arg Tyr
        1   5   10

(2) INFORMATION FOR SEQ ID NO:9:

        (i) SEQUENCE CHARACTERISTICS:
             (A) LENGTH: 10 amino acids
             (B) TYPE: amino acid
             (C) STRANDEDNESS: single
             (D) TOPOLOGY: linear

        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

        Tyr Arg Leu Ala Ile Arg Leu Asn Glu Arg
        1   5   10

(2) INFORMATION FOR SEQ ID NO:10:

        (i) SEQUENCE CHARACTERISTICS:
             (A) LENGTH: 10 amino acids
             (B) TYPE: amino acid
             (C) STRANDEDNESS: single
             (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

Arg Glu Asn Leu Arg Ile Leu Leu Arg Tyr
1   5   10

(2) INFORMATION FOR SEQ ID NO:11:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 10 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

Tyr Arg Leu Leu Ile Arg Leu Asn Glu Arg
1   5   10

(2) INFORMATION FOR SEQ ID NO:12:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 10 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

Arg Glu Asp Leu Arg Ile Ala Leu Arg Tyr
1   5   10

(2) INFORMATION FOR SEQ ID NO:13:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 10 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

Tyr Arg Leu Ala Ile Arg Leu Asp Glu Arg
1   5   10

(2) INFORMATION FOR SEQ ID NO:14:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 10 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

```
Arg Glu Asp Leu Arg Ile Leu Leu Arg Tyr
1               5                   10
```

(2) INFORMATION FOR SEQ ID NO:15:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 10 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

```
Tyr Arg Leu Leu Ile Arg Leu Asp Glu Arg
1               5                   10
```

(2) INFORMATION FOR SEQ ID NO:16:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 12 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

```
Tyr Arg Leu Leu Ile Arg Arg Ile Leu Leu Arg Tyr
1               5                   10
```

(2) INFORMATION FOR SEQ ID NO:17:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 12 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

```
Tyr Arg Leu Leu Ile Arg Arg Ile Ala Leu Arg Tyr
1               5                   10
```

(2) INFORMATION FOR SEQ ID NO:18:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 12 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

```
Tyr Arg Leu Ala Ile Arg Arg Ile Leu Leu Arg Tyr
1               5                   10
```

(2) INFORMATION FOR SEQ ID NO:19:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 12 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ix) FEATURE:
        (A) NAME/KEY: Modified-site
        (B) LOCATION: 6
        (D) OTHER INFORMATION: /note= "D-arginine"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

```
Tyr Arg Leu Ala Ile Xaa Arg Ile Ala Leu Arg Tyr
1               5                   10
```

(2) INFORMATION FOR SEQ ID NO:20:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 14 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ix) FEATURE:
        (A) NAME/KEY: Modified-site
        (B) LOCATION: 8
        (D) OTHER INFORMATION: /note= "D-isoleucine"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

```
Tyr Arg Leu Ala Ile Arg Ile Xaa Arg Ile Leu Leu Arg Tyr
1               5                   10
```

(2) INFORMATION FOR SEQ ID NO:21:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 15 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

```
Ala Tyr Arg Leu Leu Ile Lys Val Ile Arg Ile Val Leu Lys Tyr
1               5                   10                  15
```

(2) INFORMATION FOR SEQ ID NO:22:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 17 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

```
Ser Tyr Lys Leu Val Ile Lys Ile Asn Asn Ile Arg Ile Val Val Lys
1               5                   10                  15
Phe
```

(2) INFORMATION FOR SEQ ID NO:23:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 10 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

```
Arg Glu Asp Leu Arg Thr Leu Leu Arg Tyr
1               5                   10
```

(2) INFORMATION FOR SEQ ID NO:24:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 10 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

```
Arg Glu Ser Leu Arg Asn Leu Arg Gly Tyr
1               5                   10
```

(2) INFORMATION FOR SEQ ID NO:25:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 10 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:

```
Arg Glu Asn Leu Arg Thr Ala Leu Arg Tyr
1               5                   10
```

(2) INFORMATION FOR SEQ ID NO:26:

    (i) SEQUENCE CHARACTERISTICS:
       (A) LENGTH: 20 amino acids
       (B) TYPE: amino acid
       (C) STRANDEDNESS: single
       (D) TOPOLOGY: linear

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:

```
Tyr Arg Leu Ala Ile Arg Leu Asn Glu Arg Arg Glu Asn Leu Arg Ile
1               5               10              15

Ala Leu Arg Tyr
          20
```

(2) INFORMATION FOR SEQ ID NO:27:

    (i) SEQUENCE CHARACTERISTICS:
       (A) LENGTH: 20 amino acids
       (B) TYPE: amino acid
       (C) STRANDEDNESS: single
       (D) TOPOLOGY: linear

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:

```
Tyr Gly Arg Leu Asn Arg Leu Ser Glu Arg Arg Glu Ser Leu Arg Asn
1               5               10              15

Leu Arg Gly Tyr
          20
```

(2) INFORMATION FOR SEQ ID NO:28:

    (i) SEQUENCE CHARACTERISTICS:
       (A) LENGTH: 20 amino acids
       (B) TYPE: amino acid
       (C) STRANDEDNESS: single
       (D) TOPOLOGY: linear

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

```
Tyr Arg Leu Ala Thr Arg Leu Asn Glu Arg Arg Glu Asn Leu Arg Ile
1               5               10              15

Ala Leu Arg Tyr
          20
```

(2) INFORMATION FOR SEQ ID NO:29:

    (i) SEQUENCE CHARACTERISTICS:
       (A) LENGTH: 20 amino acids
       (B) TYPE: amino acid

```
            (C) STRANDEDNESS: single
            (D) TOPOLOGY: linear

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

    Tyr Arg Leu Ala Ile Arg Leu Asn Glu Arg Arg Glu Asn Leu Arg Thr
    1               5                   10                  15

    Ala Leu Arg Tyr
              20
```

(2) INFORMATION FOR SEQ ID NO:30:

```
    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 20 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

    Tyr Arg Leu Ala Thr Arg Leu Asn Glu Arg Arg Glu Asn Leu Arg Thr
    1               5                   10                  15

    Ala Leu Arg Tyr
              20
```

(2) INFORMATION FOR SEQ ID NO:31:

```
    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 20 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:

    Tyr Arg Leu Ala Ile Arg Leu Asn Glu Arg Tyr Arg Leu Ala Ile Arg
    1               5                   10                  15

    Leu Asn Glu Arg
              20
```

(2) INFORMATION FOR SEQ ID NO:32:

```
    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 25 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear
```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:

```
Trp Asp Arg Glu Thr Gln Ile Cys Lys Ala Lys Ala Gln Thr Asp Arg
1               5               10              15

Glu Asn Leu Arg Ile Ala Leu Arg Tyr
            20              25
```

(2) INFORMATION FOR SEQ ID NO:33:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 15 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:

```
Lys Ala Gln Thr Asp Arg Glu Asn Leu Arg Ile Ala Leu Arg Tyr
1               5               10              15
```

(2) INFORMATION FOR SEQ ID NO:34:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 10 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:

```
Arg Glu Ser Leu Arg Asn Leu Arg Gly Tyr
1               5               10
```

(2) INFORMATION FOR SEQ ID NO:35:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 20 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:

```
Tyr Gly Arg Leu Asn Arg Leu Ser Glu Arg Arg Glu Ser Leu Arg Asn
1               5               10              15

Leu Arg Gly Tyr
            20
```

(2) INFORMATION FOR SEQ ID NO:36:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 12 amino acids

            (B) TYPE: amino acid
            (C) STRANDEDNESS: single
            (D) TOPOLOGY: linear

     (xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:

     Tyr Arg Leu Ala Ile Arg Arg Ile Ala Leu Arg Tyr
     1   5   10

(2) INFORMATION FOR SEQ ID NO:37:

        (i) SEQUENCE CHARACTERISTICS:
            (A) LENGTH: 10 amino acids
            (B) TYPE: amino acid
            (C) STRANDEDNESS: single
            (D) TOPOLOGY: linear

     (xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:

     Arg Val Asp Leu Arg Thr Leu Arg Gly Tyr
     1   5   10